

WHAT IS CLAIMED IS:

1. A storing apparatus, comprising:
signal processing means for acquiring first type
data and second type data and processing them;
5 serial number assigning means for sequentially
assigning a serial number to the first type data and
the second type data processed by said signal
processing means in the acquired order regardless of
the first type data or the second type data; and
10 storing means for storing the first type data and
the second type data corresponding to the serial
number.
2. The storing apparatus according to claim 1,
15 further comprising resetting means for resetting said
serial number assigning means when the serial number
assigned by said serial number assigning means becomes
a predetermined value.
- 20 3. The storing apparatus according to claim 2,
wherein the predetermined value is a value that
can be displayed by displaying means.
- 25 4. The storing apparatus according to claim 1,
further comprising data name assigning means for
assigning a data name to data processed by said signal
processing means.

5. The storing apparatus according to claim 1,
wherein said signal processing means comprises
file name assigning means for creating files
corresponding to the acquired first type data and
5 second type data and for assigning file names to the
files.

10 6. The storing apparatus according to claim 1,
further comprising property information holding means
for holding property information of data obtained by
said signal processing means.

15 7. The storing apparatus according to claim 6,
further comprising storing means for storing data
processed by said signal processing means along with
the serial number,
wherein said property holding means has an
acquired data history table for storing the serial
number, a location of data thereof, and information for
20 acquiring other property information.

25 8. The storing apparatus according to claim 7,
wherein data corresponding to the serial number
assigned is erased from said storing means and
information in association with the erased data is
erased from the acquired data history table when the
serial number and a data erasing operation are

assigned.

9. The storing apparatus according to claim 7,
wherein property information of data corresponding
5 to an assigned serial number is acquired and displayed
corresponding to data in the acquired data history
table.

10. A storing apparatus, comprising:
property information holding means for storing a
location and property information corresponding to data
in a hierarchical heap structure composed of heaps of a
first region for storing a plurality of variable length
data items, a second region for storing the number of
15 the data items and acquired information of each data
item, and a third region for storing the location of
the second region.

11. The storing apparatus according to claim 10,
20 wherein said property information holding means
comprises storing means for directly storing data to
the acquired information of the second region.

12. The storing apparatus according to claim 10,
25 wherein said property information holding means
comprises storing means for holding external file
identification information for storing the data in a

heap so as to indirectly store the data.

13. The storing apparatus according to claim 10,
wherein said property information holding means
5 comprises storing means for holding data identification
information in the heap of a first hierarchical level
in the second region and linking data in a heap in a
deeper hierarchical level with the data in the first
hierarchical level so as to store data in a heap in a
10 hierarchical level higher than the second hierarchical
level.

14. A recording apparatus, comprising:
recording means for recording captured data to a
15 recording medium and assigning a total number of
captured data items recorded by the recording medium to
the captured data.

15. The recording apparatus according to claim
20 14, wherein said recording means is adapted for
recording each captured data item as a file and
recording a total number of the captured data items to
each file.

25 16. A recording apparatus, comprising:
recording means for recording captured data to a
recording medium, recording property information of the

captured data to a map file, and recording a total
number of the captured data items recorded by the
recording apparatus to the map file so that the total
number and the captured data are associated when the
5 captured data is recorded.

17. The recording apparatus according to claim
16,
wherein said recording means is adapted for
10 recording the captured data as a file, recording a
total number of the captured data items to each file,
and recording the total number to the map file so that
the captured data and the sequential data are
associated when the captured data is recorded.

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18. A recording apparatus, comprising:
recording means for recording captured data to a
recording medium and recording a total number of the
captured data items recorded by the recording apparatus
20 and information for identifying the recording apparatus
to the captured data so that the sequential data and
the information are associated with the captured data.

19. A reproducing apparatus, comprising:
25 recording means for recording captured data as a
file to a recording medium, recording a total number of
the captured data items to the file, recording property

information of the captured data to a map file, and recording the total number to the map file so that the total number and the captured data are associated when the captured data is recorded; and

5 searching means for comparing the total number of the captured data items recorded in the map file with the total number of the captured data items recorded in the file so as to search the captured data.

10 20. A recording apparatus for selectively recording captured data to a first recording medium or a second recording medium, comprising:

 recording means for recording a first map file for storing setup information of a system to the first recording medium and recording a second map file for storing property information of the captured data to the first recording medium or the second recording medium on which the captured data has been recorded,
15 wherein the setup information of the first map file is copied to the second map file and the copied setup information and the recorded captured data are associated.

20 21. The recording apparatus according to claim
25 20,

 wherein the setup information of the first map file is copied when the captured data is recorded.

22. The recording apparatus according to claim

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further comprising:

means for determining whether or not the first map

5 file is present when a recording operation is started;

means for setting up a system with the setup

information of the first map file when the first map

file is present; and

means for creating the first map file including

10 default setup information when the first map file is
not present.

23. The recording apparatus according to claim

20, further comprising:

15 means for using the second map file when the
second map file is present on the first recording
medium in the case that the second recording medium is
not connected when a recording operation is started;
and

20 means for newly creating the second map file when
the second map file is not present on the first
recording medium in the case that the second recording
medium is not connected when a recording operation is
started.

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24. The recording apparatus according to claim

20, further comprising:

means for using the second map file when the second map file is present on the second recording medium in the case that the second recording medium is connected when a recording operation is started; and

5 means for newly creating the second map file when the second map file is not present on the second recording medium in the case that the second recording medium is connected when a recording operation is started.

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25. The recording apparatus according to claim
20, further comprising:

15 means for copying captured data stored on the first recording medium and the second map file to the second recording medium when the second recording medium is connected.

26. The recording apparatus according to claim
20,

20 wherein the first recording medium is a built-in recording medium, and

wherein the second recording medium is a removable recording medium.

25 27. A storing apparatus, comprising:

recording means for recording a plurality of data items corresponding to one of a plurality of linking

methods that are different referencing methods, link information for referencing a plurality of data items being used so as to associate the data items to be managed.